

03

Technical data . C 400





03.1

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Working area	Traverse	X axis	850 mm
	Traverse	Y axis	700 mm
	Traverse	Z axis	500 mm
	Rapid linear traverses	X-Y-Z	35 - 35 - 35 m/min
	Linear acceleration	X-Y-Z	6 m/s ²
	Linear feed force	X-Y-Z	7000 N
	Max. vertical table clearance		625 mm
	Max. workpiece diameter		Ø 850 mm
	Max. workpiece height		500 mm
Main spindle drive	Speed	15000 rpm	SK 40 / HSK A 63
	Output/torque	20% c.d.f.	20 kW / 180 Nm ●
	Speed	18000 rpm	HSK A 63
	Main power/torque	20% c.d.f.	20 kW / 180 Nm ○
Control unit	Heidenhain		iTNC 530 / TNC 640 ●
Tool changer (pick-up)	Magazine pockets		38 items ●
	Chip-to-chip time*		approx. 6 s
	*(chip-to-chip times for 3-axis unit calculated in keeping with German standard VDI 2852, page 1)		
	Maximum tool length		300 mm
	Max. tool diameter with empty adjacent pockets		Ø 80 mm Ø 125 mm
	Max. magazine load		152 kg
	Extension of tool storage capacity	Additional magazine ZM 43	
Additional magazine ZM 87			additional 87 pockets ○
Max. tool diameter in the additional magazine			Ø 80 mm
Maximum tool diameter with corresponding adjacent pocket			
Allocation in additional magazine			Ø 125 mm
Max. tool weight			8 kg
Chip drawer	Removable chip drawer		●
Chip conveyor	Scraper belt or hinged belt conveyor		
	Ejection height		1100 mm ○
	Chip cart		450 l ○
Internal cooling lubricant supply with paper band filter	Capacity of standard tank		250 l ●
	Capacity of cooling lubricant tank		570 l
	Pressure (manually adjustable up to)		max. 40 bar / 26 l/min ○

Table variants	NC swivelling rotary table	Ø 440	Ø 650	Rigid clamping table
	Clamping surface	Ø 440 mm	Ø 650 x 540 mm	1070 x 700 mm
	Collision circle	Ø 1020 mm	Ø 1020 mm	-
	Swivelling range	+ 91° / - 139°	+ 91° / - 139°	-
	C axis drive mode	Worm	Worm	-
	Swivelling axis A speed:			
	One-sided drive	25 rpm	25 rpm	-
	Speed rotary axis C:	30 rpm	30 rpm	-
	Max. table load	-	-	2000 kg
	One-sided drive	400 kg	600 kg	-
	T grooves parallel	5 / 14 H7	7 / 14 H7	10 / 14 H7
	Secondary clamping plates	920 x 490 mm	-	-
	T grooves parallel	7 / 14 H7	-	-
Position measuring system, direct	Resolution			0.0001 mm ●
Positional tolerance	Tp in X-Y-Z axes according to VDI/DGQ 3441 (calculated at a constant ambient temperature of 20 °C +/-1 °C. Our products are subject to the German Export Law and require authorization since the attainable precision may be less/greater than 6 µm.)			0.008 mm ●
Hydraulics	Operating pressure			120 bar ●
Central lubrication	Minimum grease lubrication quantity			●
Connected loads (machine)	Mains connection			400 V / 50 Hz
	Power consumption			43 kVA
	Compressed air			6 bar
Weight	(standard version without optional extras, attachments, work-pieces and cooling lubricant)			approx. 9.5 t

- Included in standard delivery
- Available upon request